

<b>Notice of Allowability</b>	Application No.	Applicant(s)	
	09/941,144	WANG ET AL.	
	Examiner	Art Unit	
	Jamal A. Fox	2664	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 7/13/2005.
2. ☒ The allowed claim(s) is/are 1-12, 14-24 and 26, which have been renumbered as 1-24 respectively.
3. ☒ The drawings filed on 22 January 2002 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |  |  |
|--|--|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)            |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____. |
| 3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date <u>9/4/2002</u> | 7. <input type="checkbox"/> Examiner's Amendment/Comment                               |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material                               | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance   |
|  | 9. <input type="checkbox"/> Other _____.   |

***Allowable Subject Matter***

1. Claims 1-12, 14-24 and 26, which have been renumbered as 1-24 respectively, are allowed.
2. The following is an examiner's statement of reasons for allowance: Regarding claims 1-24, the prior art of record fails to teach of providing a plurality  $n$  of similar successive data memory channels each having a number of memory cells defining a shared memory space assigned to the  $m$  queues; providing buffering for  $m$  memory cells in front of each memory channel to receive and buffer data switched thereto from line card traffic streams, and distributing successive data in each of the queues during fixed limited times only to corresponding successive cells of each of the successive memory channels, where  $m$  and  $n$  are greater than or equal to 2. The closest reference, Brown et al. (U.S. Patent No. 4,748,618), teaches of a scalable-port, non-blocking, shared-memory output-buffered variable-length queued data switch, but fails to teach of providing a plurality  $n$  of similar successive data memory channels each having a number of memory cells defining a shared memory space assigned to the  $m$  queues; providing buffering for  $m$  memory cells in front of each memory channel to receive and buffer data switched thereto from line card traffic streams, and distributing successive data in each of the queues during fixed limited times only to corresponding successive cells of each of the successive memory channels, where  $m$  and  $n$  are greater than or equal to 2. Additionally, Manchester et al. (U.S. Patent No. 6,822,960), teaches of a switch with a plurality of line cards, queues, a memory channel and a plurality of buffers, but fails to teach of providing a plurality  $n$  of similar successive data

memory channels each having a number of memory cells defining a shared memory space assigned to the  $m$  queues; providing buffering for  $m$  memory cells in front of each memory channel to receive and buffer data switched thereto from line card traffic streams, and distributing successive data in each of the queues during fixed limited times only to corresponding successive cells of each of the successive memory channels, where  $m$  and  $n$  are greater than or equal to 2.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

***Conclusion***

**3. Any response to this action should be mailed to:**

Commissioner of Patents and Trademarks  
Washington, D.C. 20231

**or faxed to:**

(571) 273-8300, (for formal communications intended for entry)

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jamal A. Fox whose telephone number is (571) 272-3143. The examiner can normally be reached on Monday-Friday 6:30 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wellington Chin can be reached on (571) 272-3134. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to 2600 Customer Service whose telephone number is (571) 272-2600.

A handwritten signature in black ink, appearing to read "Jamal A. Fox". The signature is fluid and cursive, with the first name "Jamal" being more prominent.

Jamal A. Fox

A handwritten signature in black ink, appearing to read "Wellington Chin". The signature is fluid and cursive, with the first name "Wellington" being more prominent.

WELLINGTON CHIN  
REVISORY PATENT EXAMINER